

DaimlerChrysler AG

Patent claims

- 5 1. Changeover valve, in particular for an automatic transmission of a motor vehicle, having at least one closing means (11) which is arranged in a housing part (10) and which, in order to control a flow, can be guided into at least two valve seats 10 (16, 17) and is arranged in a control duct (20) which is open exclusively toward a connection side (15) of the housing part (10), characterized in that in a switched-off state, considered in an 15 operating configuration, the closing means (11) adopts a defined initial control position (18).
2. Changeover valve according to claim 1, characterized 20 in that the defined initial position (18), considered in the operating configuration, lies below a second control position (19) of the closing means (11) and, in the switched-off position, the closing means (11) is held at least 25 partially in the defined initial control position (18) under the force of gravity.
3. Changeover valve according to claim 2, characterized 30 in that the control duct (20) has, considered in the operating configuration, at least one angle to the horizontal, and in its defined initial control position (18), the closing means (11) bears against a lower valve seat (16) in the control 35 duct (20).
4. Changeover valve according to claim 3,

- characterized
in that in the second control position (19),
considered in the operating configuration, the
closing means (11) bears against an upper valve
5 seat (17) in the control duct (20).
5. Changeover valve according to claim 3 or 4,
characterized
in that the housing part (10) has at least one
10 second duct (21) in addition to the control duct
(20), and the control duct (20) and the second
duct (21) are connected by means of a transverse
duct (22) in the housing part (10).
- 15 6. Changeover valve according to claim 5,
characterized
in that the transverse duct (22) is formed by a
bore.
- 20 7. Changeover valve according to claim 5 or 6,
characterized
in that the transverse duct (22) is outwardly
sealed off by a metal closing plate (23).
- 25 8. Changeover valve according to one of the preceding
claims,
characterized
in that the defined initial control position (18)
corresponds to a rebound position.
30
9. Changeover valve according to one of the preceding
claims,
characterized
in that the closing means (11) is formed by a
35 valve ball.

10. Transmission control unit having at least one changeover valve as claimed in one of the preceding claims.